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APPROVALS

Meaning / Title	Signature	Date
Revision B:		Date
Updated revision to align with ELP Template 047254. Add equipment E86724-100 to the Scope and the Equipment Description section. Add photos of equipment E86724-100 to section 2 "Machine Shut down Process".		
Author: Manufacturing Engineer	Mateo, Carlos-mateoc	05-Dec-2018 13:45 (GMT -0600)
Approvers: EHS	Gonzalez Ruiz, Ariel-g042035	14-Dec-2018 13:51 (GMT -0600)
Sterilization Associate	Lara Munoz, Andres-g021476	17-Dec-2018 06:39 (GMT -0600)
Quality Engineer	Bonilla, Lourdes-bonill1	14-Jan-2019 15:19 (GMT -0600)
End of Approvals		

ELP for 100% ETO STERILIZATION CHAMBER

Purpose	To provide specific, written guidance for lockout-tagout authorized personnel on how to de-energize, isolate, and reenergize the equipment; and to prevent the unexpected start-up or release of energy that could result in injury to employees.
Scope	This procedure applies to personnel who perform service or maintenance on
	equipment, including any outside contractors, at Boston Scientific, E-69094-100 and E86724-100.
Records Created	None
References	005505 Equipment Lockout Policy 006609 Writing and Authorizing Equipment Procedures 006656 Hot Work Permit, Red Tag and Lockout/Tagout – CLONMEL FACILITY MAINTENANCE ONLY 045654 Temporary Operational Interruptions and Troubleshooting Operations 070354 Global Workflow User Assistance Guide 005508 Laser Safety
Terminology	Refer to 005505 Equipment Lockout Policy Clonmel Facility Maintenance: refer to 006656 Hot Work Permit, Red Tag and Lockout/Tagout St. Paul: refer to 045654 Temporary Operational Interruptions and Troubleshooting Operations
Description of Change	Available at the end of the document.

1. Equipment Description

Machine Description: Getinge Sterilizer Model #:
Energy Sources: AC Voltage, Steam, Soft water,
Compressed Air and EtO Magnitude:



1250X1500X1500-1

120, 480 VAC, 40,

Figure 1: Getinge Sterilizer (E69094-100)

Machine Description: Getinge Sterilizer Model #: 1250X1500X3000
Energy Sources: AC Voltage, Steam, Soft water, Compressed Air and EtO Magnitude: 120, 480 VAC, 40, 60 and 80 psi



Figure 2: Getinge Sterilizer (E86724-100)

2. Machine Shut down Process

- **Step 1.** Notify affected employees of pending shut down and application of lockout/tagout devices (operators, area personnel).
- **Step 2.** Switch the main breaker to "Off" position and lock out with Group #2 LO Devices.
- **Step 3.** Turn the Ball Valve for the nitrogen to off position and lock out with Group #16 LO Device.
- **Step 4.** Turn the Ball Valve for the compress air to the off position and lock out with Group #16 LO Device.
- **Step 5.** Turn the Ball Valve for the steam to the off position and lock out with Group #16 LO Device.
- **Step 6.** Turn the Ball Valve for the EtO and nitrogen on the tank to the off position and lock out with Group #16 LO Device.
- **Step 7.** Turn off main breaker for the steam generator; lock out with Group #11.
- **Step 8.** Relieve, restrain, block, disconnect, or otherwise render safe all stored or residual energy from the system.
- **Step 9.** Verify equipment is disconnected from the energy source(s) and is in a zero energy state. Check that no personnel are exposed.
- **Step 10.** Verify isolation by activating the normal operating controls. Caution: return control(s) to neutral or OFF position after verification.

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Figure 3: Sterilizer E69094-100 (Main Breaker)



Figure 4: Sterilizer E86724-100 (Main Breaker)

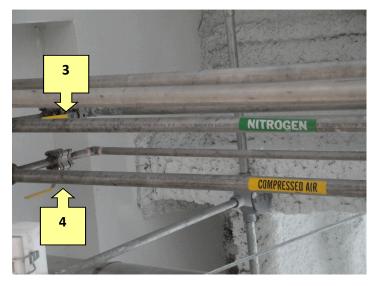


Figure 5: Sterilizer E69094-100 (Compressed Air and Nitrogen)

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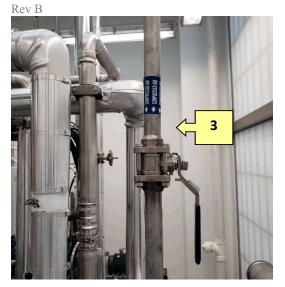


Figure 6: Sterilizer E86724-100 (Compressed Air)

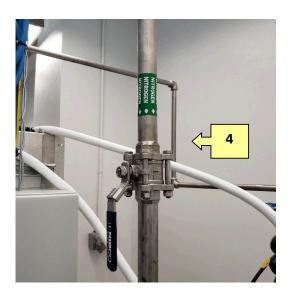


Figure 7: Sterilizer E86724-100 (Nitrogen)

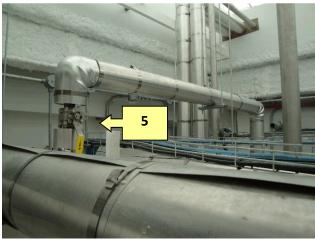


Figure 8: Sterilizer E69094-100 (Steam)

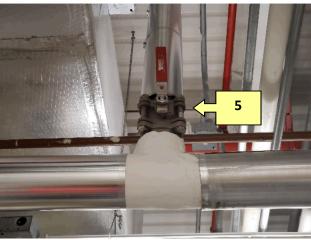


Figure 9: Sterilizer E69094-100 (Steam)

Group #2 LO Device



Lock and Tag

Group#11 LO Device



Circuit Breaker Lockout for single, double or triple pole

Group LO #16



Ball Valve Lockout

3. Release from Lockout/Tagout Process

- **Step 1.** Notify employees in area of release from lockout/tagout. Inspect area to ensure all nonessential items have been removed, and that the machine is operationally intact.
- **Step 2.** Ensure all employees in work area are removed or safely positioned.
- **Step 3.** Remove lockout/tagout (group #1 device) Note: Each authorized employee shall remove the lockout/tagout device that they applied as stated in Section 4, Authorization.
- **Step 4.** Turn switch to Right, into the "ON" position, to reenergize the system and return equipment to service.

4. Authorization

Only Boston Scientific Facilities maintenance technicians trained in lockout/tagout procedures or authorized employees trained in lockout/tagout procedures are authorized to install lockout/tagout devices in accordance with company procedures. Only the installer or the maintenance leader shall remove lockout/tagout devices.

Failure to comply with established procedures may result in disciplinary action or termination.

Description of Change

Revision	Description of Change
В	Updated revision to align with ELP Template 047254. Add equipment E86724-100 to the
	Scope and the Equipment Description section. Add photos of equipment E86724-100 to
	section 2 "Machine Shut down Process".
Α	Initial Release. ELP was executed to ensure instructions could be executed as written.